

HIGH EFFICIENCY HEAT PUMP PROGRAM – APPLICATION FORM

Applications will only be processed if information is provided in all 7 sections and only if the homeowner's and contractor's signatures are on form. Complete 1 form for each residential heat pump installation. Contact Kelly Beiermann (402-563-5415) kibeier@nppd.com, or Roger Hunt (402-293-9406) or Steve Walker (308-535-5324) with any questions.

Can only apply for one: Direct Incentive -OR- Low Interest Loan

1. Name of HVAC Contractor: _____

Address & City: _____

Phone Number: _____ Tax ID #: _____

2. Home Owner's Name: _____ Electric Utility: _____

Home owner's Address & City: _____

Installation Address & City*: _____ Acct or Meter #* _____

3. Equipment Information: Tonnage: _____ SEER Rating (14.0 is min): _____ HSPF (8.2 is min.): _____

Backup for Heat Pump: Electric _____, (kw) or Fossil Fuel _____ (Btuh), if Geothermal Heat Pump (EER)* _____ (COP)* _____

Equipment Mfr.: _____ Furnace Model No.: _____

ID Coil No.: _____ Heat Pump Model No.: _____ ARI Perf. Cert. #* _____

Type of Installation: New Construction _____, A/C to a Heat Pump _____, or Existing Heat Pump to New Heat Pump _____

4. Determine CFM: (Complete section A or B)

A) Total External Static Pressure in _____ inches of W.C.

_____ Equivalent CFM (per equipment specifications and associated external static pressure)

B) Airflow check – temperature rise method with electric furnace (test in emergency heat mode)

1) _____ Volts x _____ Amps = _____ Watts

2) _____ Watts x 3.414 = _____ Btuh

3) _____ Supply Air °F (minus) _____ Return Air °F = _____ Temp. Difference (TD) °F

4) _____ Btuh (divided by) 1.08 (divided by) _____ (TD) °F = _____ CFM

5. Measured Heat Pump Capacity Calculation (Complete section A or B)

A) Heating cycle (test in heat pump only mode)

1) _____ Supply Air °F (minus) _____ Return Air °F = _____ (TD) °F

2) 1.08 x _____ (TD) °F x _____ CFM (section 4) = _____ Btuh

B) Cooling Cycle (run at least ten minutes)

1) Return – wet bulb temp. _____ = Enthalpy _____

2) Supply – wet bulb temp. _____ = Enthalpy _____

3) Enthalpy Difference = _____

4) 4.5 x _____ CFM (section 4) x _____ Enthalpy Difference = _____ Btuh

6. Quality Assurance Inspection Results:

A) Measured Total CFM (section 4): _____ Outdoor Temp.: _____ Mfr's. Rated HP Capacity: _____ Btuh

B) Measured Heat Pump Capacity (section 5): _____ Btuh

C) Difference between rated and measured capacity (rated-measured)/rated = _____ % Passed (within 10%) or Failed

D) If failed - reason _____ ?

7. I acknowledge that this installation is in compliance with the program guidelines.

Homeowner: _____
Print Name Signature Date

Inspection
Performed by: _____
Print Name Signature Date

NATE Certification #*: _____

All 7 sections need to be completed in order to process Note** - Fill in if Applicable

Nebraska Public Power District – April, 2009